

**PPP2R1A Blocking Peptide(C-term)**  
**Synthetic peptide**  
**Catalog # BP19717b****Specification**

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**PPP2R1A Blocking Peptide(C-term) - Product Information**

Primary Accession [P30153](#)  
Other Accession [P54612](#), [Q76MZ3](#), [Q32PI5](#), [NP\\_055040.2](#)

**PPP2R1A Blocking Peptide(C-term) - Additional Information**

**Gene ID** 5518

**Other Names**

Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform, Medium tumor antigen-associated 61 kDa protein, PP2A subunit A isoform PR65-alpha, PP2A subunit A isoform R1-alpha, PPP2R1A

**Target/Specificity**

The synthetic peptide sequence is selected from aa 469-481 of HUMAN PPP2R1A

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PPP2R1A Blocking Peptide(C-term) - Protein Information**

**Name** PPP2R1A

**Function**

The PR65 subunit of protein phosphatase 2A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. Upon interaction with GNA12 promotes dephosphorylation of microtubule associated protein TAU/MAPT (PubMed:<a href="http://www.uniprot.org/citations/15525651" target="\_blank">15525651</a>). Required for proper chromosome segregation and for centromeric localization of SGO1 in mitosis (PubMed:<a href="http://www.uniprot.org/citations/16580887" target="\_blank">16580887</a>). Together with RACK1 adapter, mediates dephosphorylation of AKT1 at 'Ser-473', preventing AKT1 activation and AKT-mTOR signaling pathway (By similarity). Dephosphorylation of AKT1 is essential for regulatory T-cells (Treg) homeostasis and stability (By similarity).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:Q32PI5}. Nucleus. Chromosome, centromere. Lateral cell

membrane. Cell projection, dendrite. Note=Centromeric localization requires the presence of BUB1.

### **PPP2R1A Blocking Peptide(C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **PPP2R1A Blocking Peptide(C-term) - Images**

### **PPP2R1A Blocking Peptide(C-term) - Background**

This gene encodes a constant regulatory subunit of protein phosphatase 2. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The constant regulatory subunit A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. This gene encodes an alpha isoform of the constant regulatory subunit A. Alternatively spliced transcript variants have been described. [provided by RefSeq].

### **PPP2R1A Blocking Peptide(C-term) - References**

Jones, S., et al. Science 330(6001):228-231(2010)  
Schmitz, M.H., et al. Nat. Cell Biol. 12(9):886-893(2010)  
Heikkinen, P.T., et al. J. Biol. Chem. 285(6):3740-3749(2010)  
Dupont, W.D., et al. Cancer 116(1):8-19(2010)  
Wang, Q., et al. Neoplasia 11(10):1012-1021(2009)